ipHost Controller

<User Manual>

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1. Features and Configurations

1.1 Features of ipHost

- ipHost

  = Independent Power Line Communication Host

  Addressable、Memory function and Auto-run function.

- System Features:

  Do not need control line or RF wireless, only power line is needed for power and signal transmission.

- Connection Ability:

  There are 2 versions of pHost that the total watt for connection is 500 watts or 1000 watts.

- Dimmable Function:

  The luminance is bright linearly depends one the percentage. 0% = darkness → 100% =lightest

- Energy-saving Function:

  The brightness can increase progressively or decrease progressively depends one the percentage, so will not waste the surplus electric power.

- Memory Function:

  Enable to Set several lighting modes (frames) in accordance with different demands and Save in the pHost.

- Auto Function:

  Play the lighting modes saved in the pHost automatically in accordance with Morning、Noon、 Afternoon or Night etc.

- Remote Control Function:

  IR Sensor is built in the pHost and using infrared remote controller to control the system.

- Color Change Function:

  Support both of Single color and Multi-color lamps to adjust and luminance, also enable to change colors and modes.

- Applications:

  Any indoor lighting, ex to the factory、lobby、sports ground、stages、office、conference hall etc.

- SupportWiFi:

  Support WiFi communication,server mode and client mode

1.2 ipHost Modes

■ Luminance Mode

- Singular Channel: Use F1~F10 choose /cancel Channel and the Rotary switch can adjust the brightness.
- Grouped Channel: Use ALL key to choose all channels and adjust the luminance simultaneously or cancel all.
- Press F1 ~ F10 is used as a switch: Long press F1~F10 can control single channel on/off to use.

■ Adjust Color Mode

- Brightness & Color Mode Switch :Press the Rotary switch can switch brightness and CCT .
- Switch to Brightness Mode :turn the Rotary switch can adjust the brightness.
-Switch to Color Mode :In CCT dual color lamp , turn the Rotary knob can adjust the color temp.
In RGB multi color lamp, turn the Rotary knob can adjust color.

■ Memory Mode

- Save Memory Mode: Adjusting luminance in accordance with different lighting demands and all the settings can be saved in the iHost.
- Play Memory Mode: Enable to call the recorded setting, so we do not need to do the adjustment for each time.

■ RUN PROGRAM Mode

- Auto Change Mode: Built-in 10 auto-changing modes in the ipHost, all single color lamps、CCT lamps or RGB lamps will change simultaneously.

■ Full Automatic Function

- Save Full Automatic Mode: It is similar to Memory Function, the additional function is enable to set and save the lighting information (ex: date / time / week).
- Play Full Automatic Mode: Enable to play all programs automatically in accordance with saved date、time and week.

■ Remote Control Function

- IR Sensor: Enable to use infrared remote controller to control luminance、CCT or colors.

■ Timing Function

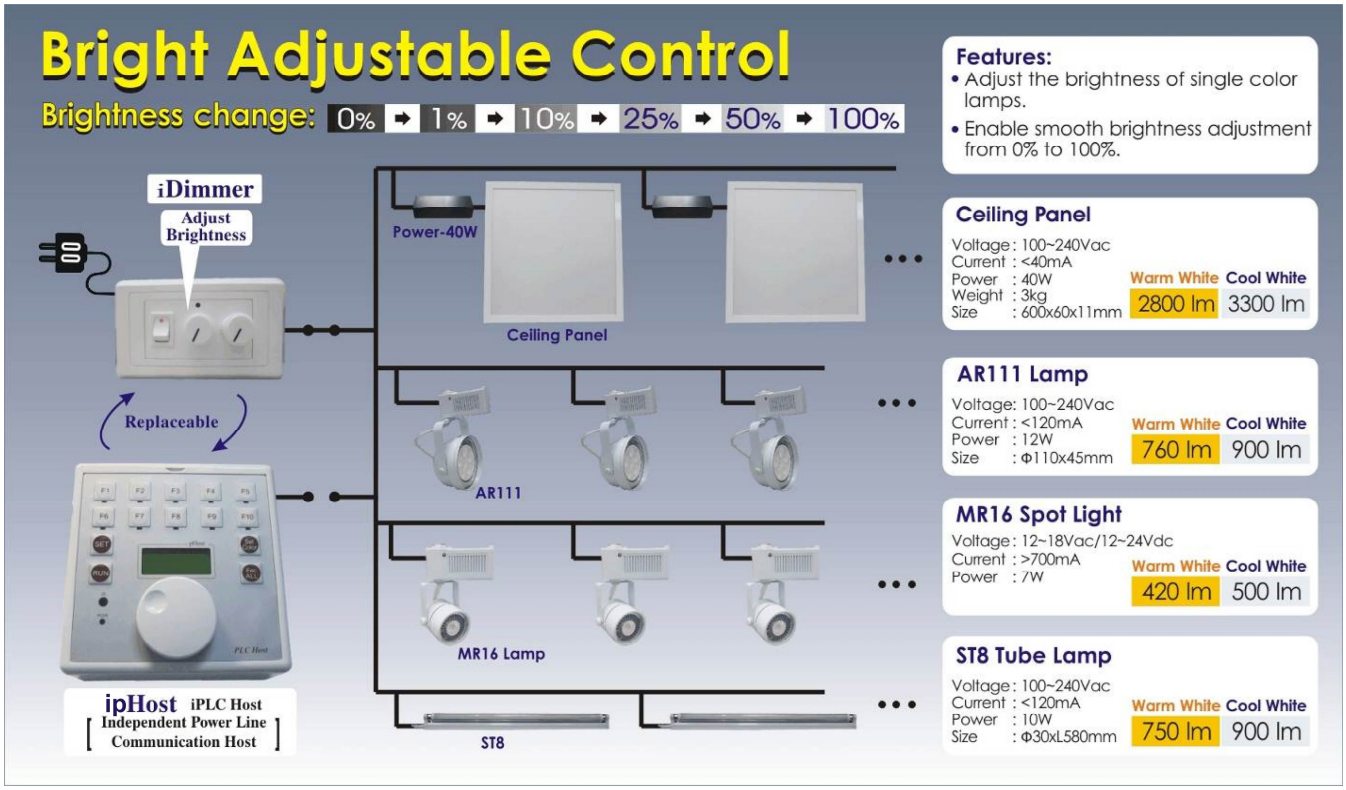
- Time Setting Mode: Set year、month、day、hour、minute、second and week.

1.2 ipHost Configuration

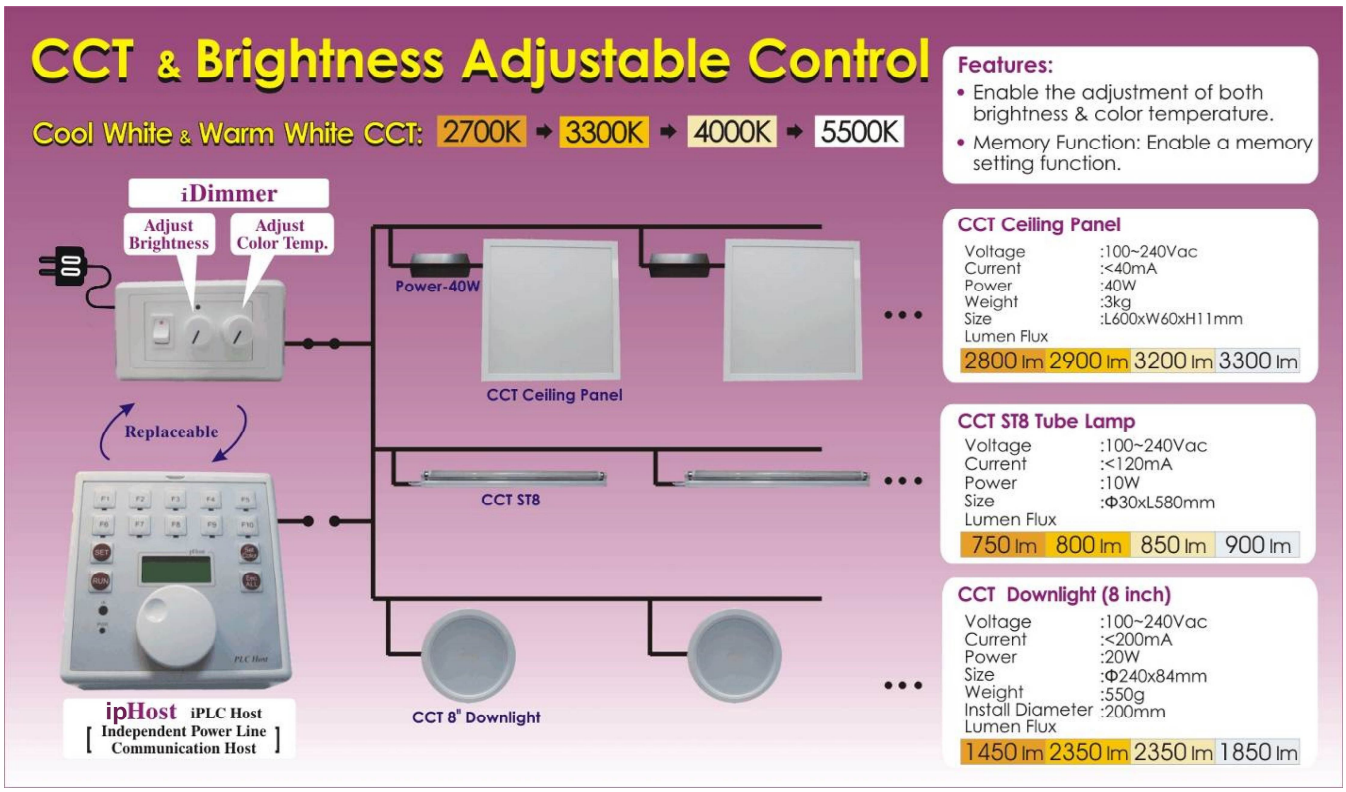
- Single Color Lamps: Ceiling Panel、Down Light (6”)、AR111、Spot Light、Tube Lamp.
- Two-color Lamps (CCT): Ceiling Panel、Down Light (6” & 8”)、Tube Lamp、Bulb
- Multi-color Lamps (RGB): Ceiling Panel、Down Light (6”)、Spot Light、Bulb、Flex Strip

	Item	Mode No.	Watt	Suggestion quantity under 500W
Single Color Lamps	Ceiling Panel	SCP6060-CW-40W-P	40W	10
	6 inch Down Light	SDL206-WW-12W-P	12W	35
	MR16 Spot Light	SCL216-CW-7W-P	8W	20
	AR111 Lamp	AR111-WW-12W-P	12W	40
	Tube Lamp (2 ft.)	ST8-060-CW-10W-P	10W	20
	Tube Lamp (4 ft.)	ST8-120-WW-20W-P	20W	60
CCT Lamps	Ceiling Panel	SCP6060-CCT-40W-P	40W	35
	6 inch Down Light	SDL206-CCT-12W-P	12W	10
	8 inch Down Light	SDL208-CCT-20W-P	20W	66
	Bulb (E27)	SCB227-CCT-6W-P	6W	35
	Tube Lamp (2 ft.)	ST8-060-CCT-10W-P	10W	20
	Tube Lamp (4 ft.)	ST8-120-CCT-20W-P	20W	40
Multi-color Lamps	RGB Ceiling Panel	MCP6060-30W-P	30 W	20
	RGB Down Light (6”)	MDL106-10W-P	10W	16
	RGB Spot Light	MCL127-5W-P	5W	80
	RGB Bulb	MCB127-5W-P	5W	40
	RGB Flex Strip (5M)	MFS-5M-P	36W	80
	RGB Wall Washer	MCW-40W-P	40 瓦	10

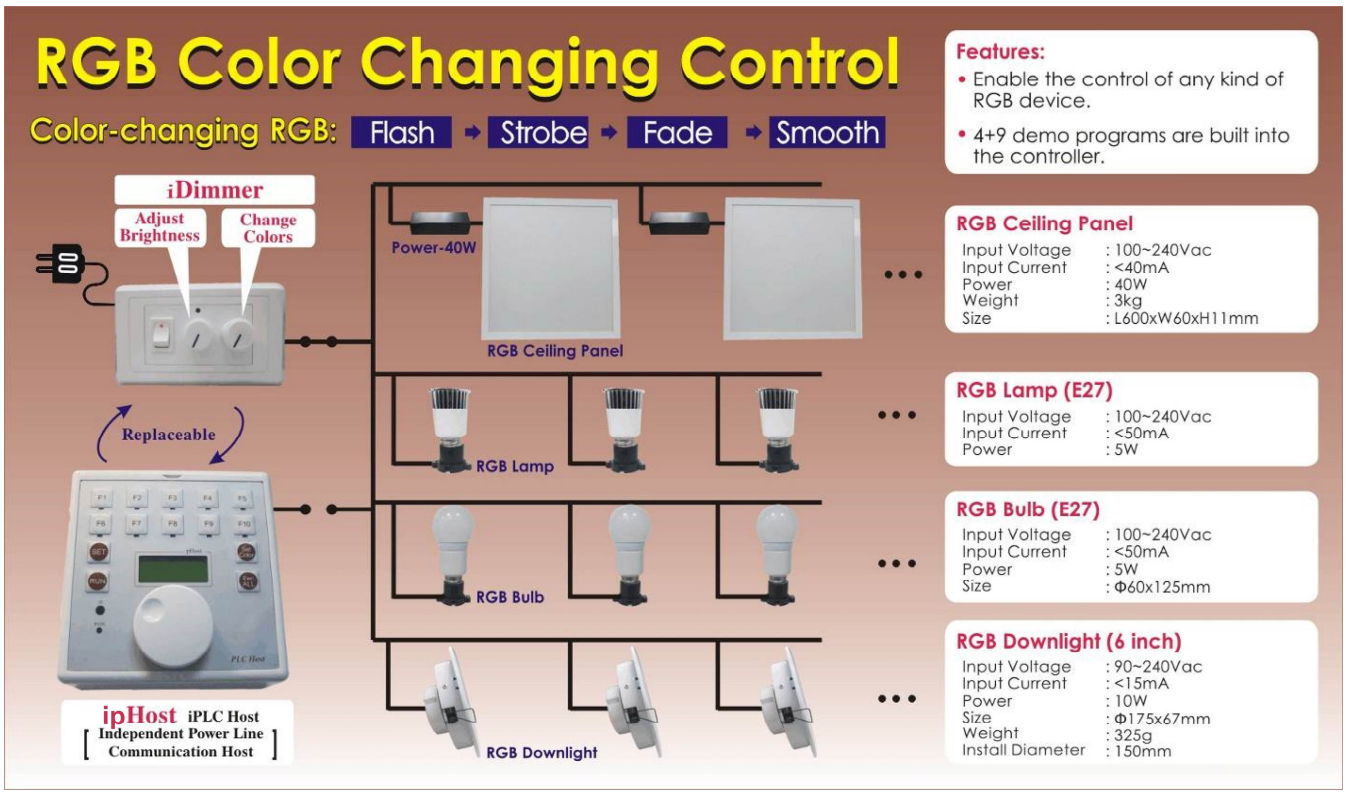
【 Configuration – ipHost and Single Color Lamps】



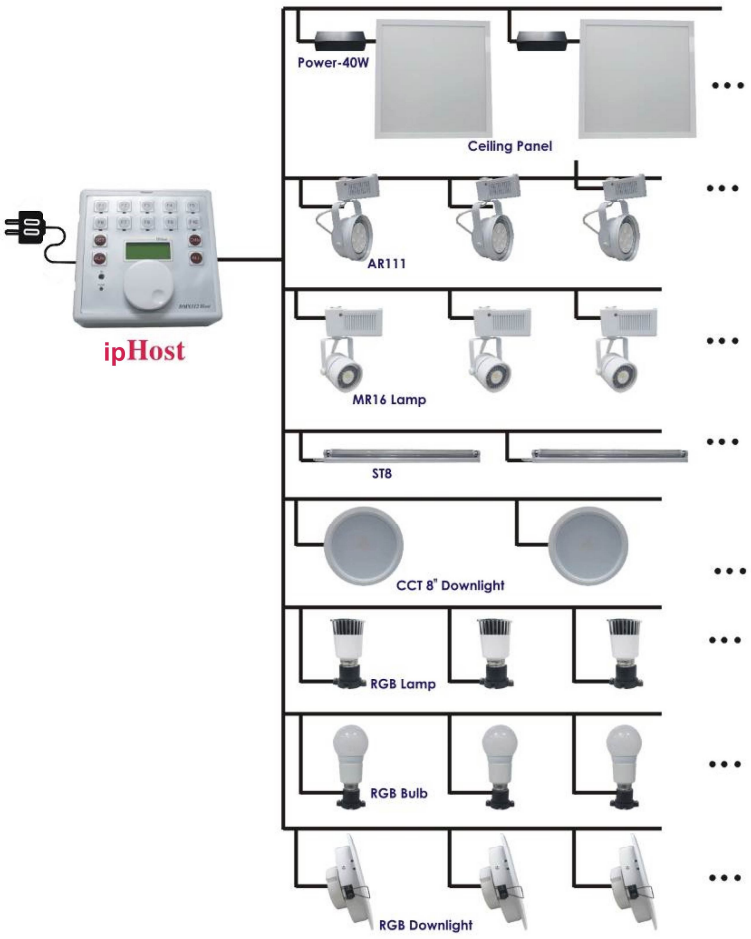
【 Configuration – ipHost and CCT Lamps 】



【Configuration – ipHost and RGB Lamps】

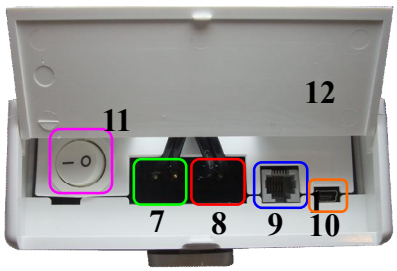


【Integrated Configuration】



2. ipHost Specifications

2.1 Appearance Introduction

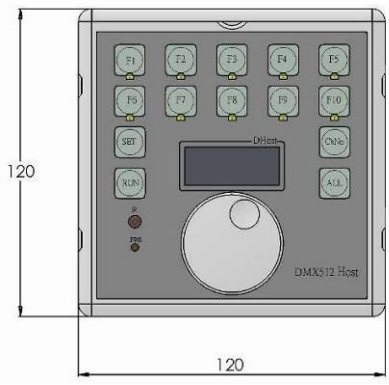


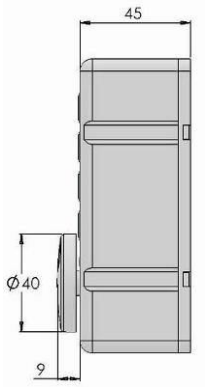
Descriptions	
1	LED indicator light
2	IR sensor
3	LCD screen
4	Rotary Switch
5	Function Keys
6	LED digital keys (F1~F10)
7	AC In
8	AC & iPLC Out
9	RS485 interface
10	USB interface
11	Power Switch
12	Cover

2.2 Specifications

ipHost	
Input Voltage	100~240 V
Input Current	<7A
Output Voltage	100~240 V
Fan-out	250W:Internal AC switch. 500W:External AC switch.
Communication Protocol	iPLC
Wireless Control	Infrared remote controller

【Dimension Diagram】





< Unit: mm >

3. Operation Description

3.1 「ipHost – RGB/CCT」Descriptions

Key	Press 1 sec.	Press 2 sec.	Press Twice
F1	Choose channel 1	Switch on /off channel 1	Rum memory 1
F2	Choose channel 2	Switch on /off channel 2	Rum memory 2
F3	Choose channel 3	Switch on /off channel 3	Rum memory 3
F4	Choose channel 4	Switch on /off channel 4	Rum memory 4
F5	Choose channel 5	Switch on /off channel 5	Rum memory 5
F6	Choose channel 6	Switch on /off channel 6	Rum memory 6
F7	Choose channel 7	Switch on /off channel 7	Rum memory 7
F8	Choose channel 8	Switch on /off channel 8	Rum memory 8
F9	Choose channel 9	Switch on /off channel 9	Rum memory 9
F10	Choose channel 10	Switch on /off channel 10	Rum memory 10
SET	**+F1~F10 :** Set memory 1~10	iHost setting entry (include select CCT / RGB mode)	
RUN	**+F1~F10 :** Run existing program 1~10	Download Id entry	
Esc ALL	All channels selection or cancellation	Switch on or switch off all channels	

	RGB mode	CCT mode
Set Color	Mode change: Flash→Strobe→Fade→Smooth	CCT change: 2700K→3300K→4000K→5500K
	Press once: Change to RGB / Brightness mode	Press once: Change to CCT / Brightness mode
	Turn right: Brightness ↑(max. 100%) RGB value↑ Turn lift: Brightness ↓(min. 0%) RGB value ↓	Turn right: Brightness ↑(max. 100%) CCT value ↑ (Cool white 5500K) Turn left: Brightness ↓(min. 0%) CCT value ↓(Warm white 2700K)

3.2 「ipHost - CCT + Infrared remote controller」Operation

Key	Press 1 sec.	Press 2 sec.	Press Twice
F1	Choose channel 1	Switch on /off channel 1	Rum memory 1
F2	Choose channel 2	Switch on /off channel 2	Rum memory 2
F3	Choose channel 3	Switch on /off channel 3	Rum memory 3
F4	Choose channel 4	Switch on /off channel 4	Rum memory 4
F5	Choose channel 5	Switch on /off channel 5	Rum memory 5
F6	Choose channel 6	Switch on /off channel 6	Rum memory 6
F7	Choose channel 7	Switch on /off channel 7	Rum memory 7
F8	Choose channel 8	Switch on /off channel 8	Rum memory 8
F9	Choose channel 9	Switch on /off channel 9	Rum memory 9
F10	Choose channel 10	Switch on /off channel 10	Rum memory 10
SET	**+F1~F10 :** Set memory 1~10		
RUN	**+F1~F10** : Run existing program 1~10		
Esc ALL	All channels selection or cancellation	Switch on or switch off all channels	

Set Color	CCT change: 2700→3300K→400→5500K						
Flash	Chang cool white & warm white quickly (1 sec.)	Strobe	Change cool white & warm white slowly (5 sec.)	Fade	Change cool white & warm white gradually & quickly	Smooth	Change cool white & warm white gradually & slowly
OFF	Turn on lamps (power) Brightness: 0%	ON	Turn off lamps (power) Brightness: 100%		Brightness: ↑		Brightness ↓
	Brightness: 50%		Brightness: 25%		Brightness: 10%		Brightness: 2%

3.3 「ipHost - RGB + Infrared remote controller」Operation

Key	Press 1 sec.	Press 2 sec.	Press Twice
F1	Choose channel 1	Switch on /off channel 1	Rum memory 1
F2	Choose channel 2	Switch on /off channel 2	Rum memory 2
F3	Choose channel 3	Switch on /off channel 3	Rum memory 3
F4	Choose channel 4	Switch on /off channel 4	Rum memory 4
F5	Choose channel 5	Switch on /off channel 5	Rum memory 5
F6	Choose channel 6	Switch on /off channel 6	Rum memory 6
F7	Choose channel 7	Switch on /off channel 7	Rum memory 7
F8	Choose channel 8	Switch on /off channel 8	Rum memory 8
F9	Choose channel 9	Switch on /off channel 9	Rum memory 9
F10	Choose channel 10	Switch on /off channel 10	Rum memory 10
SET	**+F1~F10 :** Set memory 1~10		
RUN	**+F1~F10**：Run existing program 1~10		
Esc ALL	All channels selection or cancellation	Switch on or switch off all channels	

Set Color	Mode Change：Flash→Strobe→ Fade→ Smooth						
M1 Flash	Chang colors quickly (1 sec.)	M2 Strobe	Change colors slowly (5 sec.)	M3 Fade	Change colors gradually & quickly	M4 Smooth	Change colors gradually & slowly
OFF	Turn on lamps (power) Brightness: 0%	ON	Turn off lamps (power) Brightness: 100%		Brightness: ↑		Brightness ↓
	Brightness: 50%		Brightness: 25%		Brightness: 10%		Brightness: 2%

4. ipHost Mode

4.1 Adjust the brightness mode

Adjust the brightness Mode (Press the Rotary switch can switch CCT and adjust the brightness.)	
Single channel selection mode	Use F1~F10 to choose/cancel ID. Example: Set lamps as ID:1、ID:5 and ID:9 and set them to light up simultanously. 1. Press F1、F5 and F9 as ID:1、ID:5、ID:9 2. Use Rotary Switch to adjust the luminance. 3. If press F1、F5 and F9 again, the ID(1、5、9) will be cancelled.
Choose All ID	Use Esc ALL key to choose or cancel all ID.
F1~F10 As a Switch	Use F1~F10 as a switch to switch on / off the ID. Press any key of F1~F10, the related ID (lamp) will light up to 100% (lightest); However, if press once again, the ID(lamp) will reduce to 0% (lightless).
Run Memory	Use F1~F10 to run the memorized programs by user define. Example: If user wants to run the Memory 1, just need to press F1 twice.

4.2 Adjust the color Mode(Long press the button "SET"to enter the settings page of CCT or RGB; pls refer to 4.6 system configuration for details.)

Adjust the color Mode	
Brightness & Color Mode Switch	RGB mode : Press the Rotary switch, the RGB ratio(0~100) will show up. Rotate the switch to adjust. Press the number 0-9 on remote control(iIRC) can adjust the CCT or RGB. CCT mode: Press the Rotary switch, the CCT ratio(0~100) will show up, rotate the switch to adjust. Press the button "Set Color" can switch 2700K→3000K→4000K→5700K
Switch to Brightness Mode	turn the Rotary switch can adjust the brightness.
Episodic memory mode	F1~F10 can set as scene memory, which can call up the user's setting(brightness & color). Example: Press F1 twice, and the memory setting of F1 will show up.

4.3 Run Program Mode

Run Program Mode (Press Run button to start RunProg.)	
Change Color Simultaneously	Built-in 9 (F1~F10) auto-changing colors modes, therefore, all of the single color lamps、RGB lamps or CW+WW lamps will change color simultaneously. Example: Press F1→ Single lamp change mode；Press F2→Fanlike change mode Please refer to the 「Mode Table」for other flash modes.
PIR Mode	PIR Sensor is needed in this mode. Press F9 a while (about 2 sec.) to entry the PIR (Passive Infrared Sensor) mode.
Run Auto Mode	Press F10 a while (about 2 sec.) to run the recorded settings in accordance with different time. And we can inquire about settings by using Rotary switch.

4.4 Memory Mode

<table>
<tr><th colspan="3">Memory Mode</th></tr>
<tr><td>Descriptions</td><td colspan="2">In the different time, we may have different lighing demands. For example: in the morning, it is full of sunshine, so we do not need turn lights on to lightest(100%) in the office, so we just need to turn on to 60%~80% ; In the noon, it is time to take a break, so we can turn lights off ; When working over time in the evening, we have to turn lights on to 100%; However, when we are off the duty, we have to turn lights off before going home.
In our life, lights always be turned on from the morning till night mostly and all switches are operated by manual, however, we are probably forget to turn off the light, so cause the energy wastely.
Therefore, the Memory Mode of pHost could solve all the problems as mentioned above. We can save various lighting demands in the pHost at the same time, and just need spend few seconds to call the programs when we need, it is easier、faster and more convenient, and also save the electricity and human resources.</td></tr>
<tr><td rowspan="3">Set Memory Mode</td><td>Example</td><td>Set ID:1 as Lamp-1 ;
Set ID:2 as Lamp-2 ;
Set ID:3 as a Lamp of corridor
Assume:
F1=Working time program, and set ID1: 60% + ID2: 78% + ID3:66%
F2=Overtime program, and set ID1: 100% + ID2:100% + ID:100%
F3=Off time program, and set ID1:0% + ID2:0% + ID:20%</td></tr>
<tr><td>Set</td><td>Working time (F1) Setting :
1. Firstly, press Esc ALL about 2 sec. to switch all lamps off.
2. Press F1 (= ID:1)→Turn Rotary switch to 60%(luminance)→Press F1 again
3. Press F2 (= ID:2)→Turn Rotary switch to 78%(luminance)→Press F2 again
4. Press F3 (= ID:3)→Turn Rotary switch to 66%(luminance)→Press F3 again
5. Press SET→Press F1→ Press SET→ Press SET again → F1 set completely

Overtime (F2) Setting :
1. Firstly, press Esc ALL about 2 sec. to switch all lamps off.
2. Press F1 (= ID:1)→Turn Rotary switch to 100%(luminance)→Press F1 again
3. Press F2 (= ID:2)→Turn Rotary switch to 100%(luminance)→Press F2 again
4. Press F3 (= ID:3)→Turn Rotary switch to 100%(luminance)→Press F3 again
5. Press SET→Press F2→ Press SET→ Press SET again → F2 set completely

Off time (F3) Setting :
1. Firstly, press Esc ALL about 2 sec. to switch all lamps off.
2. Press F1 (= ID:1)→Turn Rotary switch to 0%(luminance)→Press F1 again
3. Press F2 (= ID:2)→Turn Rotary switch to 0%(luminance)→Press F2 again
4. Press F3 (= ID:3)→Turn Rotary switch to 20%(luminance)→Press F3 again
5. Press SET→Press F3→ Press SET→ Press SET again → F3 set completely</td></tr>
<tr><td>Quit</td><td>Press Esc ALL key to quit.</td></tr>
<tr><td rowspan="5">Run Memory Mode</td><td colspan="2">Case1：Play memorized program - F1 (Working time)</td></tr>
<tr><td>Run</td><td>Press F1 twice</td></tr>
<tr><td>Quit</td><td>Press Esc ALL key to quit.</td></tr>
<tr><td colspan="2">Case2：Play memorized program – F2 (Overtime)</td></tr>
<tr><td>Run</td><td>Press F2 twice</td></tr>
<tr><td>Quit</td><td>Press Esc ALL key to quit.</td></tr>
</table>

4.5 Full Automatic Mode

<table>
<tr><th colspan="3">Full Automatic Function</th></tr>
<tr><td>Descriptions</td><td colspan="2">Function 3 is similar to Funtion 2. The big difference is that Function 3 is not only to enable to save lumincance vlaue at the same time, but also enalbe to save “Time”(ex.: 8:30)、“Date”(yy/mm/dd) or “Week” (Monday ~ Sunday) for each program.
Therefore, the programs will play in accordance with set Time/Week automatically. And the cycle is one week.</td></tr>
<tr><td rowspan="4">Set Memory Mode (luminance + Time + Date+ Week)</td><td>Example</td><td>Assume:<table><tr><td>1. Working time</td><td>: 08:30 of Monday ~ Friday ; Lumincane is 70%</td></tr><tr><td>2. Overtime</td><td>: 17:30 of Monday ~ Thursday ; Luminance is 100%</td></tr><tr><td>3. Off duty time</td><td>: 20:00 of Monday ~ Thursday ; Luminance is 0%</td></tr><tr><td>4. Off duty time</td><td>: 17:40 of Friday ; Luminance is 0%</td></tr></table></td></tr>
<tr><td>Set</td><td>Press Set→F1~F10 (10 memory storage)</td></tr>
<tr><td>Run</td><td>Working time (F1) Setting :
1. Press Esc ALL key to select all ID→ Adjust luminance to 70% of each ID
2. Press SET→ Prss F1→ Adjust the Time as 8:30→ Adjust the week as x12345x
3. Press SET key → Press SET again to comfirm setting

Overtime (F2) Setting :
1. Press Esc ALL key to select all ID → Adjust luminance to 100% of each ID
2. Press SET→ Prss F2→ Adjust the Time as 17:30→ Adjust the week as x1234 x x
3. Press SET key → Press SET again to comfirm setting

Offf time (F3) Setting :
1. Press Esc ALL key to select all ID → Adjust luminance to 0% of each ID.
2. Press SET→ Prss F3→ Adjust the Time as 20:00→ Adjust the week as x1234 x x
3. Press SET key → Press SET again to comfirm setting

Friday- Off time (F4) Setting:
1. Press Esc ALL key to select all ID → Adjust luminance to 0% of each ID.
2. Press SET→ Prss F4→ Adjust the Time as17:30→ Adjust the week as xxxxx5x
3. Press SET key → Press SET again to comfirm setting</td></tr>
<tr><td>Quit</td><td>Press Esc ALL key to quit.</td></tr>
<tr><td rowspan="2">Play Full Automatic</td><td>Run</td><td>Press Run + F10 (about 2 sec.)</td></tr>
<tr><td>Quit</td><td>Press Esc ALL key to quit.</td></tr>
</table>

4.6 Time Setting Mode

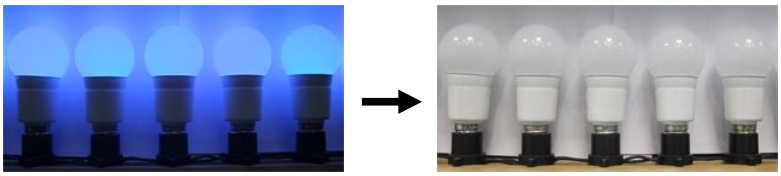
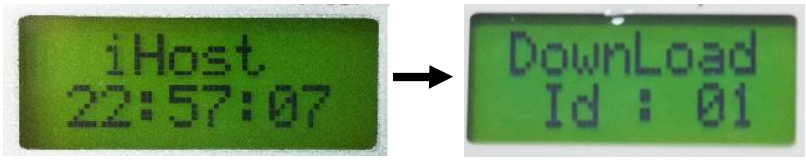
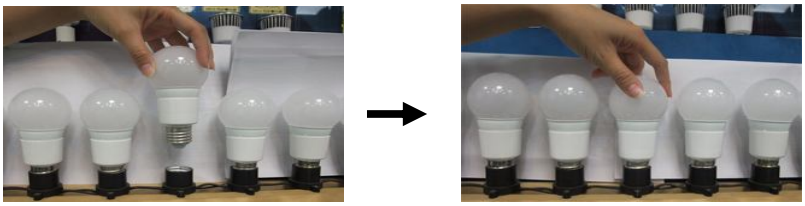
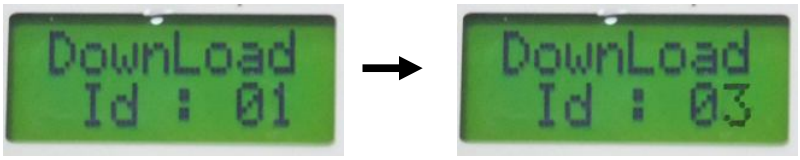
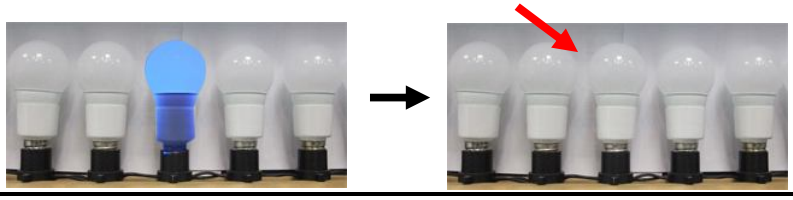
<table>
<tr><th colspan="3">Time Setting</th></tr>
<tr><td rowspan="4">Time Setting</td><td colspan="2">Set year、month、date、hour、minute second and week in advance by using “SET” key and “Rotary Switch”.
YY/MM/DD (Date) YY：Year (ex: 2002)
MM：Month
DD：Date
Use Rotary Switch to adjust the position and value.
HH/MM/SS (Time) HH：Hour (1:00~24:00)
MM：munite
SS：second
Use Rotary Switchto to adjust the position and value.
WEEK DAY Week (Sunday/ Monday... Saturday)
MAXPG_C this value (MAXPG_C) has to mathch up the last ID number.
Example: if the last ID number is 4, s the MAXPG_C value will be 4.
SAVE ? OK: setting completely
NO: cancel seeting</td></tr>
<tr><td>Entry</td><td>Press SET key (about 2 sec.)</td></tr>
<tr><td>Run</td><td>Use Rotary switch to choose the subject want to change→ Prss Rotary switch to confrim your selection→ Trun Rotary switch to change value→ Press Rotarty switch to confrim</td></tr>
<tr><td>Quit</td><td>Press Esc ALL key to quit.</td></tr>
</table>

Example of office application:

pHost controller x 1、Ceiling Panel x 4 、Down Light (waem white) x 2

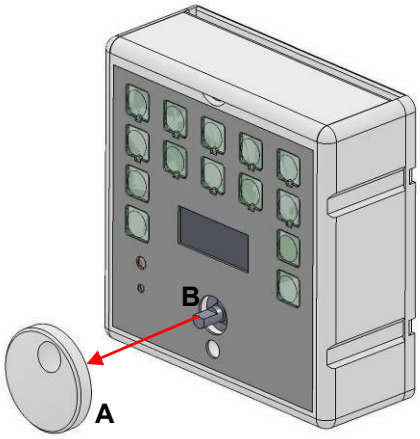
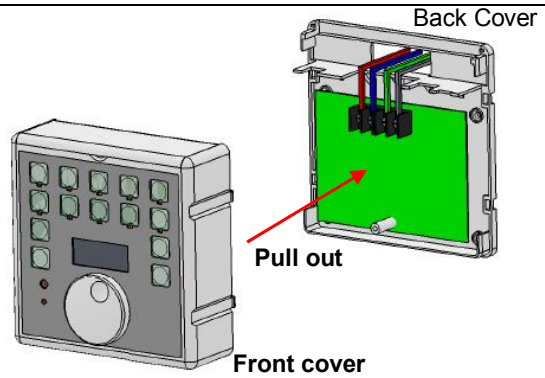
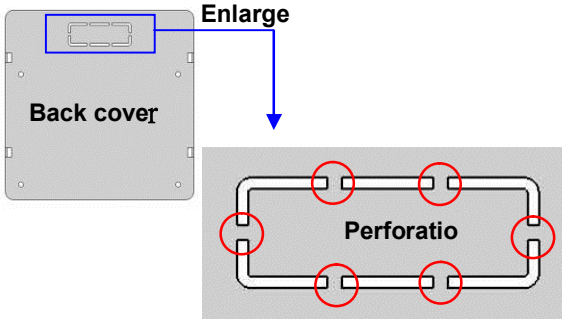
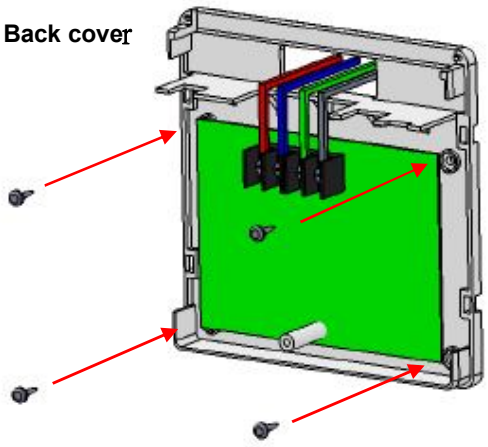
Time	Condidtion	Mode
08：30	Working time in the morning Need: 4 Ceiling Panels Luminance: Cool White 70% (There is sunshine, so only 70% is needed)	Ceiling Panels will switch on to 70% automatically at 8:30 in the morning.
12：00	Break time in the noon Need: 2 Down Lights Luminance = Warm White 20% (It is a best mode of takig a break)	The ceiling panels will switch off automaticlly at 12:00 in the noon, and the down lights will switch on to 20% of warm white.
13：30	Working time in the afternoon: Need: Ceiling Panel luminance: Cool White 70% (Ther is still has sunshine in the 13:30)	Down lights will switch off automaticlly at 13:30 and 4 ceiling panels will switch on to 70% again.
17：00	Working time in the afternoon: Need: Ceiling Panel Luminance: Cool White 100% (There is no sunshine in the 17:00, so 100% is needed)	4 ceiling panels will switch on to 100% at 17:00 automaticlly.
20：00	Off duty time in the eveniny: Need: Ceiling Panel Luminance: Cool White 1%	After the working time, only 2 ceiling panels are needed and the luminace is 1%.

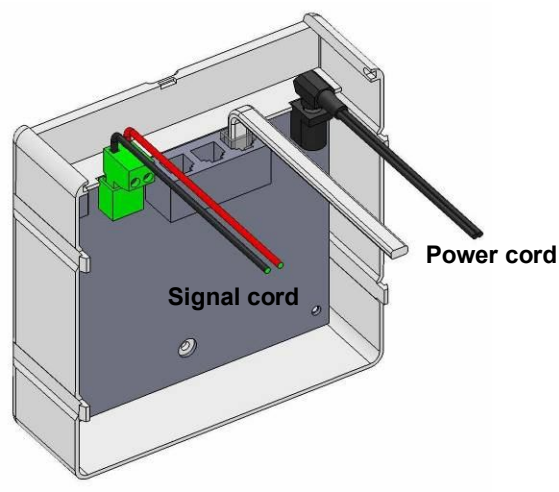
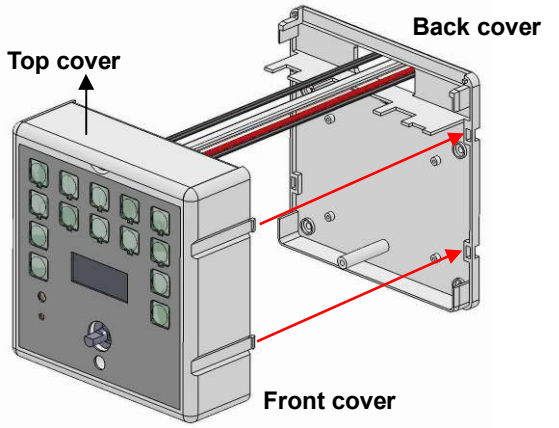
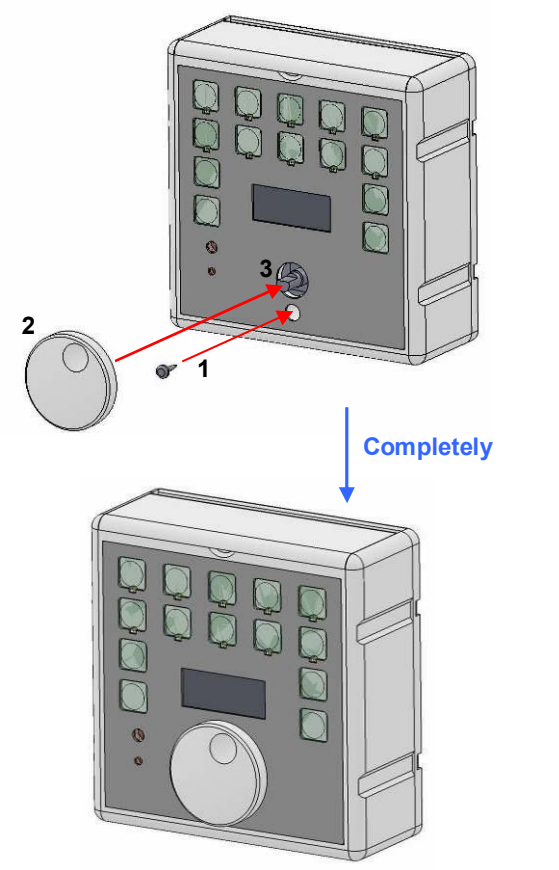
5. Download ID

Step	Descriptions
Step 1	Press Esc All key about 2 sec. to switch all lamps off. 
Step 2	Press RUN key about 2 sec. to enter Download Id mode. 
Step 3	Pull out the plug of the lamp form socket to cut off the power supply about 10 seconds. (Reset) 
Step 4	Use Rotary switch to choose the ID number you would like to set. (ex: ID: 3) 
Step 5	Press the Rotary switch to confirm setting & the lamps as you set will switch off. (It means that the setting is completed.) 

6. ipHost Installation & Wiring

6.1 ipHost installation

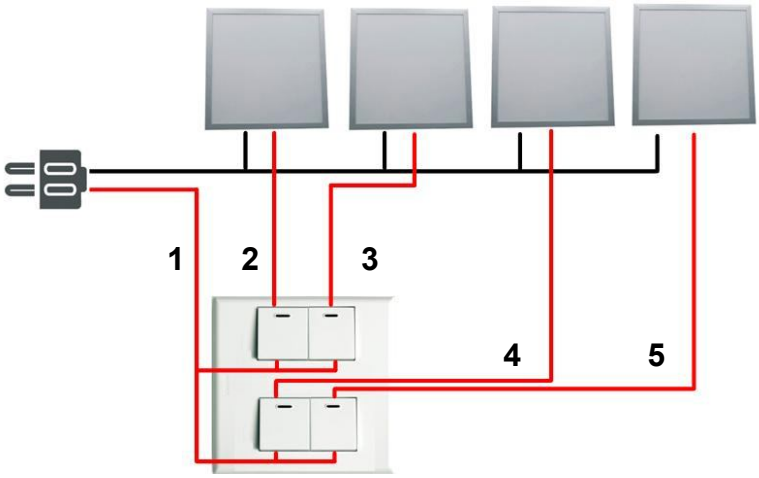
Step	Picture	Description
STEP 1		Pull out the Rotary switch. Note: A: Rotary switch B: Pivot of Rotary switch
STEP 2		To extrude the two sides of the Front cover and pull it out to take off.
STEP 3		To cut off the red parts of the Back cover (as picture shows) for making holes through.
STEP 4		If want to place the pHost on the wall, please fix the Back cover to the wall by screwing 4 screw nails.

STEP 5		Take the Top cover off, and plug the power cord and Signal cord in the ports.
STEP 6		Put the Top cover back, and combine the Front cover and Back cover together.
STEP 7		a. Put the screw **(1)** in the hole of the Front cover, and screws the Front cover and Back cover together. b. Screw the Rotary **(2)** switch to the Pivot **(3)**. c. Install completely.

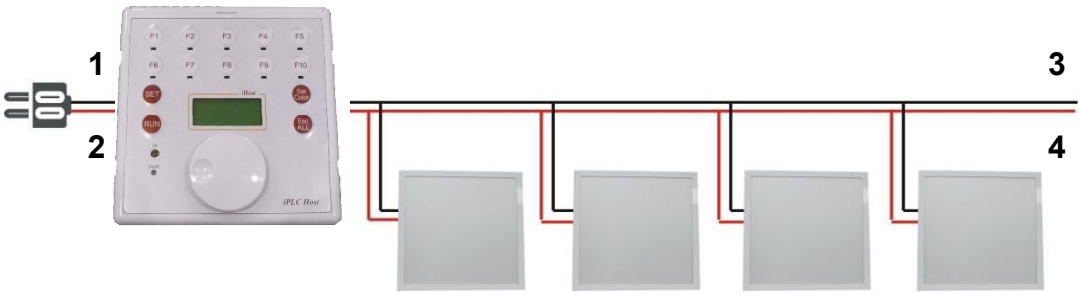
6.2 ipHost Wiring Example

Example 1:

- 1-1 **Traditional way (4 circuits)**: 5 power lines are needed.

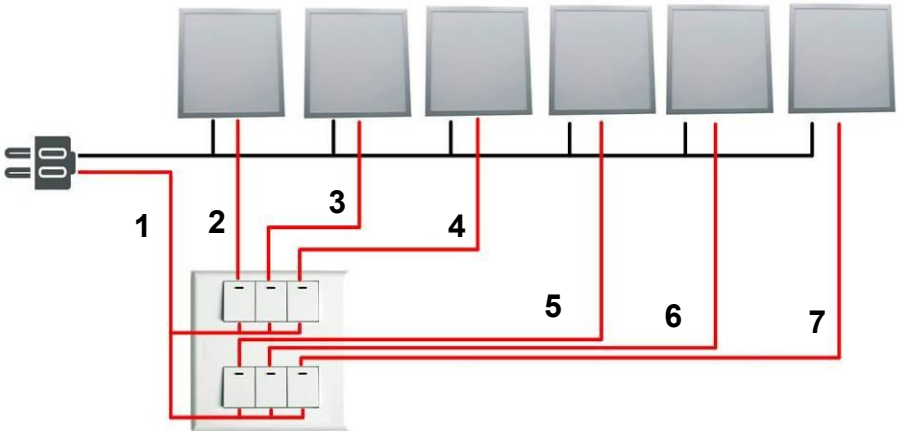


- 1-2 **ipHost wiring (4 circuits)**: only 4 power lines are needed.

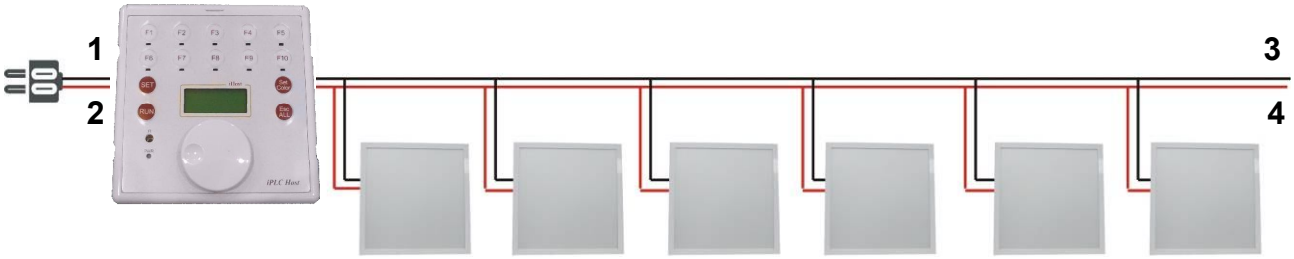


Example 2:

- 2-1 **Traditional way (6 circuits)**: 7 power lines are needed.



■ 2-2 **ipHost wiring (6 circuits)**: only 4 power lines are needed.



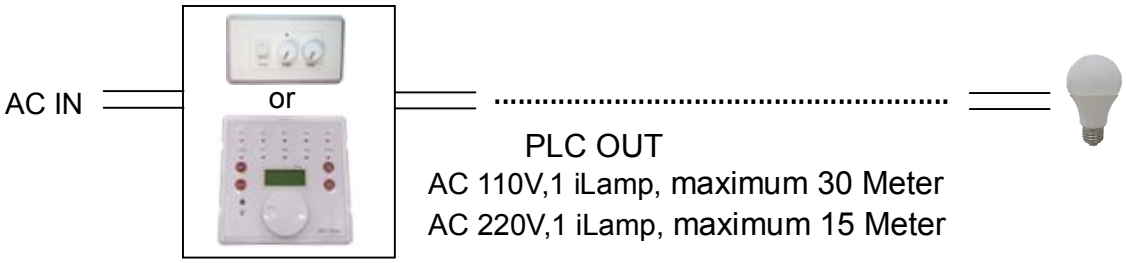
【Installation reference Data】

	Item	Mode No.	Watt	Lamp Quantity under 500W
Single Color Lamps	Ceiling Panel	SCP6060-CW-40W-P	40W	**12**
	6 inch Down Light	SDL206-WW-12W-P	12W	**40**
	MR16 Spot Light	SCL216-CW-7W-P	8W	**60**
	AR111 Lamp	AR111-WW-12W-P	12W	**40**
	Tube Lamp (2 ft.)	ST8-060-CW-10W-P	10W	**50**
	Tube Lamp (4 ft.)	ST8-120-WW-20W-P	20W	**25**
CCT Lamps	Ceiling Panel	SCP6060-CCT-40W-P	40W	**12**
	6 inch Down Light	SDL206-CCT-12W-P	12W	**40**
	8 inch Down Light	SDL208-CCT-20W-P	20W	**25**
	Bulb (E27)	SCB227-CCT-6W-P	6W	**80**
	Tube Lamp (2 ft.)	ST8-060-CCT-10W-P	10W	**50**
	Tube Lamp (4 ft.)	ST8-120-CCT-20W-P	20W	**25**
Multi-color Lamps	RGB Ceiling Panel	MCP6060-30W-P	30 W	**16**
	RGB Down Light (6”)	MDL106-10W-P	10W	**50**
	RGB Spot Light	MCL127-5W-P	5W	**100**
	RGB Bulb	MCB127-5W-P	5W	**100**
	RGB Flex Strip (5M)	MFS-5M-P	36W	**13**
	RGB Wall Washer	MCW-40W-P	40 瓦	**12**

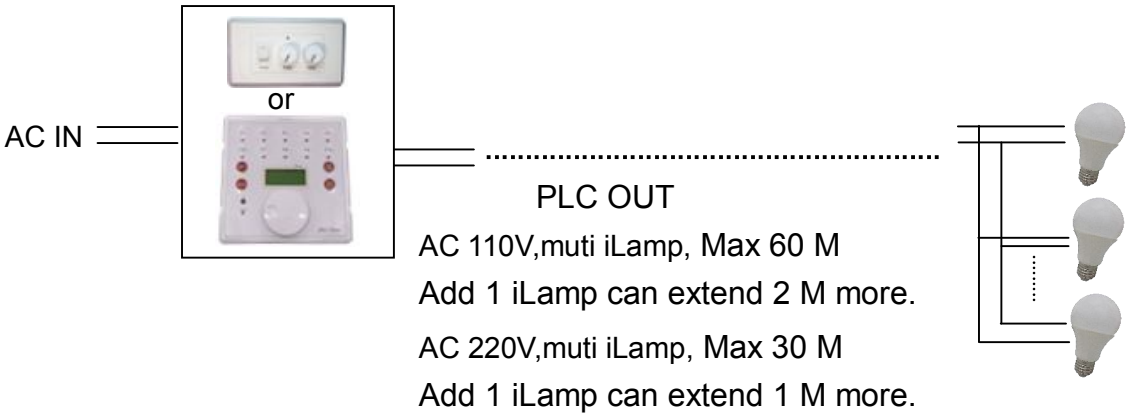
7.iPLC Communication distance

7.1Without iCascade：

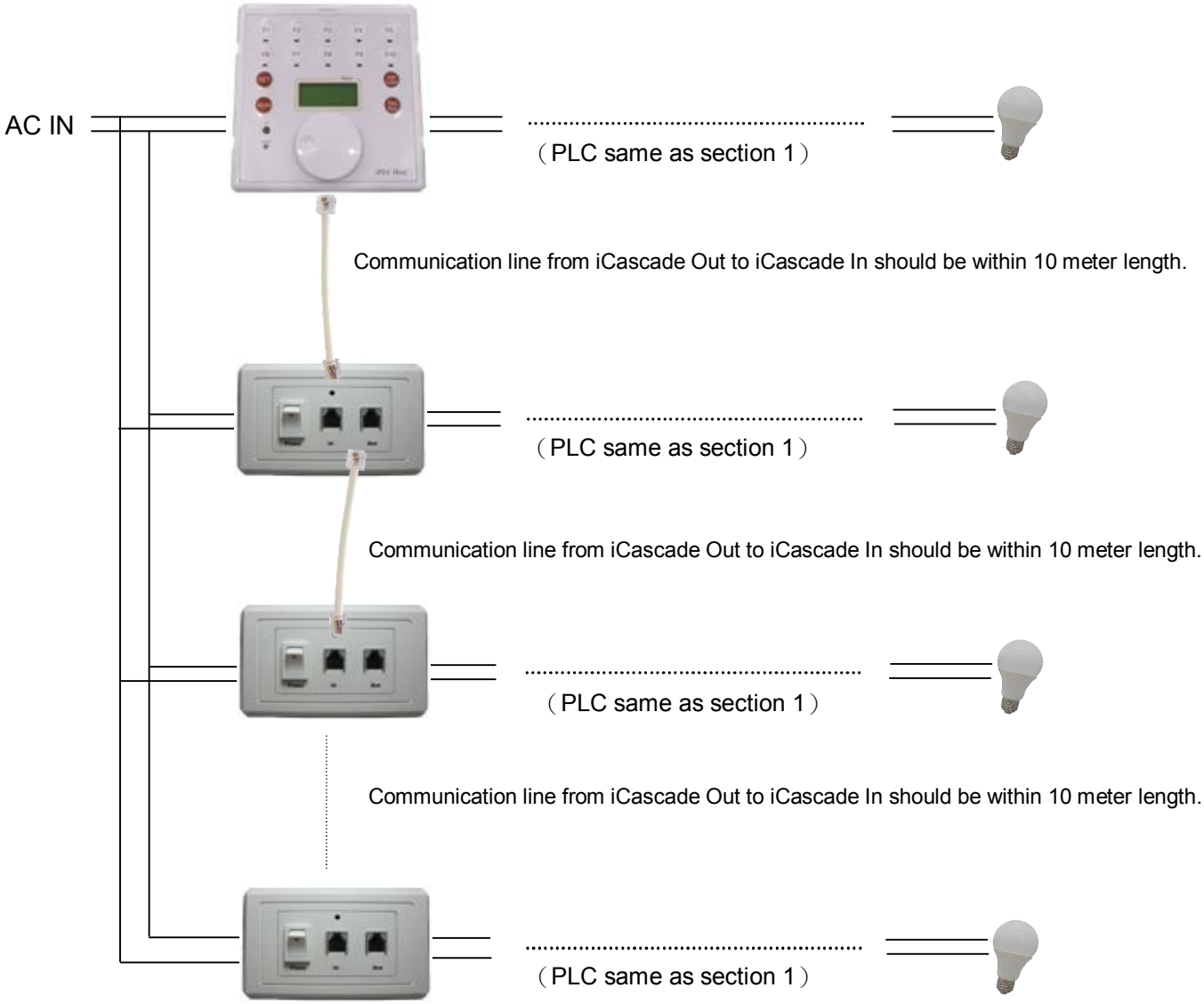
a. iLamp



b. Muti iLamp


AC IN
or
PLC OUT
AC 110V,muti iLamp, Max 60 M
Add 1 iLamp can extend 2 M more.
AC 220V,muti iLamp, Max 30 M
Add 1 iLamp can extend 1 M more.

7.2With iCascade：


AC IN
（PLC same as section 1）
Communication line from iCascade Out to iCascade In should be within 10 meter length.
（PLC same as section 1）
Communication line from iCascade Out to iCascade In should be within 10 meter length.
（PLC same as section 1）
Communication line from iCascade Out to iCascade In should be within 10 meter length.
（PLC same as section 1）
Maximum can use 5

8. iPLC Lamps Specifications

8.1 Single color lamps (Brightness Adjustable)

Ceiling Panel

Model No.	**SCP-40W-P**
Voltage	100~240 Vac
Current	<40 mA
Power	40 W
Weight	3 kg
Size	595 x 595 x 11 mm
Warm White	3000 lm
Cool White	3500 lm

Down Light

	6 inch	**8 inch**
Model No.	**SDL206-12W-P**	**SDL208-20W-P**
Voltage	100~240 Vac	100~240 Vac
Current	<120 mA	<200 mA
Size	Φ180 x 73 mm	Φ235 80 mm
Warm White	720 lm	1650 lm
Cool White	850 lm	1800 lm

Tube Lamp

	2 ft.	**4 ft.**
Model No.	**ST8-60-10W-P**	**ST8-120-20W-P**
Voltage	100~240 Vac	100~240 Vac
Current	<100 mA	<200 mA
Power	10 W	20w
Size	Φ30x580mm	Φ30x1200 mm
Warm W ite	750 lm	1900 lm
Size	900 lm	2100 lm

MR16 Spot Light

Model No.	**SCL216-V7-P**
Voltage	12~18 Vac / 12~24 Vdc
Current	<700 mA
Power	6.5 W
Warm White	420 lm
Size	500 lm

AR111 Spot Light

Model No.	**AR111-12W-P**
Voltage	100~240 Vac
Current	<120 mA
Power	12 W
Size	Φ110 x 45 mm
Warm White	800 lm
Size	900 lm

8.2 Two-color lamps (CCT & Brightness Adjustable)

CCT Ceiling Panel

Model No.		**DCP-40W-P**
Voltage		100~240 Vac
Power / Current		40 W / <400 mA
Size		595 x 595 x 11 mm
Lumen	2700 K	3000 lm
	3300 K	310 lm
	4000 K	3400 lm
	5500 K	3500 lm

CCT Bulb

Model No.		**DCB227-5W-P**
Voltage		100~240 Vac
Power / Current		5 W / <95 mA
Size		Φ60 x 125 mm
Lumen	2700 K	360 lm
	3300 K	370 lm
	4000 K	380 lm
	5500 K	400 lm

CCT Down Light (6 inch)

Model No.		**DDL206-12W-P**
Voltage		100~240 Vac
Power / Current		12 W / <120 mA
Size		Φ180 x 73 mm
Lumen	2700 K	700 lm
	3300 K	730 lm
	4000 K	750 lm
	5500 K	800 lm

CCT Down Light (8 inch)

Model No.		**DDL208-20W-P**
Voltage		100~240 Vac
Power / Current		20 / <200 mA
Size		Φ235 x 80 mm
Lumen	2700 K	1450 lm
	3300 K	1650 lm
	4000 K	1750 lm
	5500 K	1850 lm

CCT Tube Lamp

		2 ft.	**4 ft.**
Model No.		**DT8-60-10W-P**	**DT8-120-20W-P**
Voltage		100~240 Vac	100~240 Vac
Power/Current		10 W/<100 mA	20w / <200 mA
Size		Φ30x580mm	Φ30x1200 mm
	2700 K	750 lm	1560 lm
	3300 K	800 lm	1640 lm
	4000 K	850 lm	1690 lm
	5500 K	900 lm	1780 lm

8.3 Multi-color lamps (RGB Color Changing)

RGB Ceiling Panel

Model No.	**MCP-20W-P**
Voltage	100~240 Vac
Current	<20 mA
Pow r	20 W
Size	595 x 595 x 11 mm

RG Bulb

Model No.	**MCB127-5W-P**
Voltage	100~240 Vac
Current	<60 mA
Power	5W
Size	Φ60 x 125 mm

RGB Down Light (6 inch)

Model No.	**MDL106-10W-P**
Voltage	100~240 Vac
Current	<15 mA
Power	10 W
Size	Φ180 x 3 mm

RGB E27 Spot Light

Model No.	**MCL127-5W-P**
Voltage	100~240 Vac
Current	<50 mA
Power	5 W

RGB Flex Strip (5 m)

Model No.	**MFS-40W-P**
Voltage	100~240 Vac
Current	<400 mA
Power	40 W

RGB Wall Washer

Model No.	**MCW-40W-P**
Voltage	100~240 Vac
Current	<400 mA
Power	40 W
Size	383 x 204 x 55 mm

9. ipHost WiFi Control Mode

9.1：Server mode: Intra-network static IP ➔(for non-WiFi environment)

ipHost can be a wireless station, and all devices allow to connect to the ipHost directly.

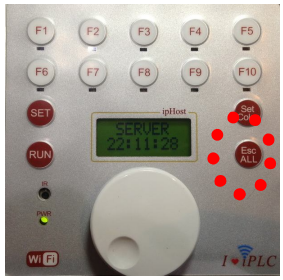
Apply to: The environment does not have internet network and wireless network.

Do not need setting, so online directly while turn on the ipHost.

1. Server Mode (AP mode):

Step1　Turn on the ipHost

Step2 Long Press button for few seconds



Step3 LCD monitor

1st line: SERVER mode

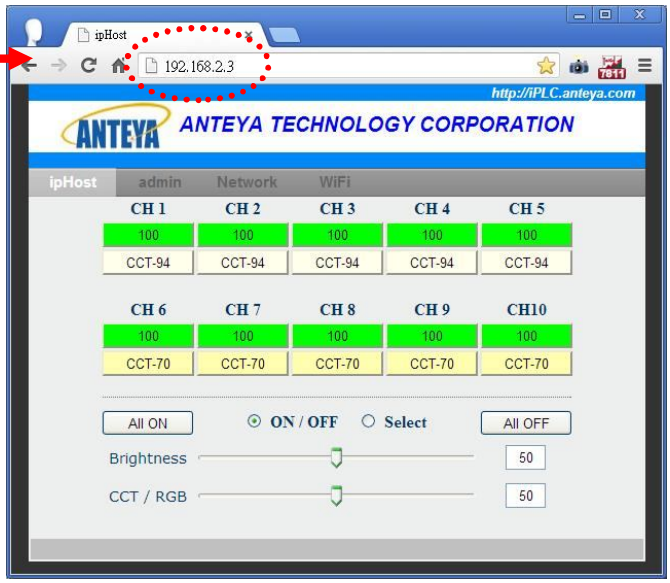
2nd line: Current time / Host name / IP address

Exp.： 22:00 iphost-092 192.168.2.3

Host name will be displayed automatically after boot ipHost，enter the cell phone setting → Wifi → Select the host name →

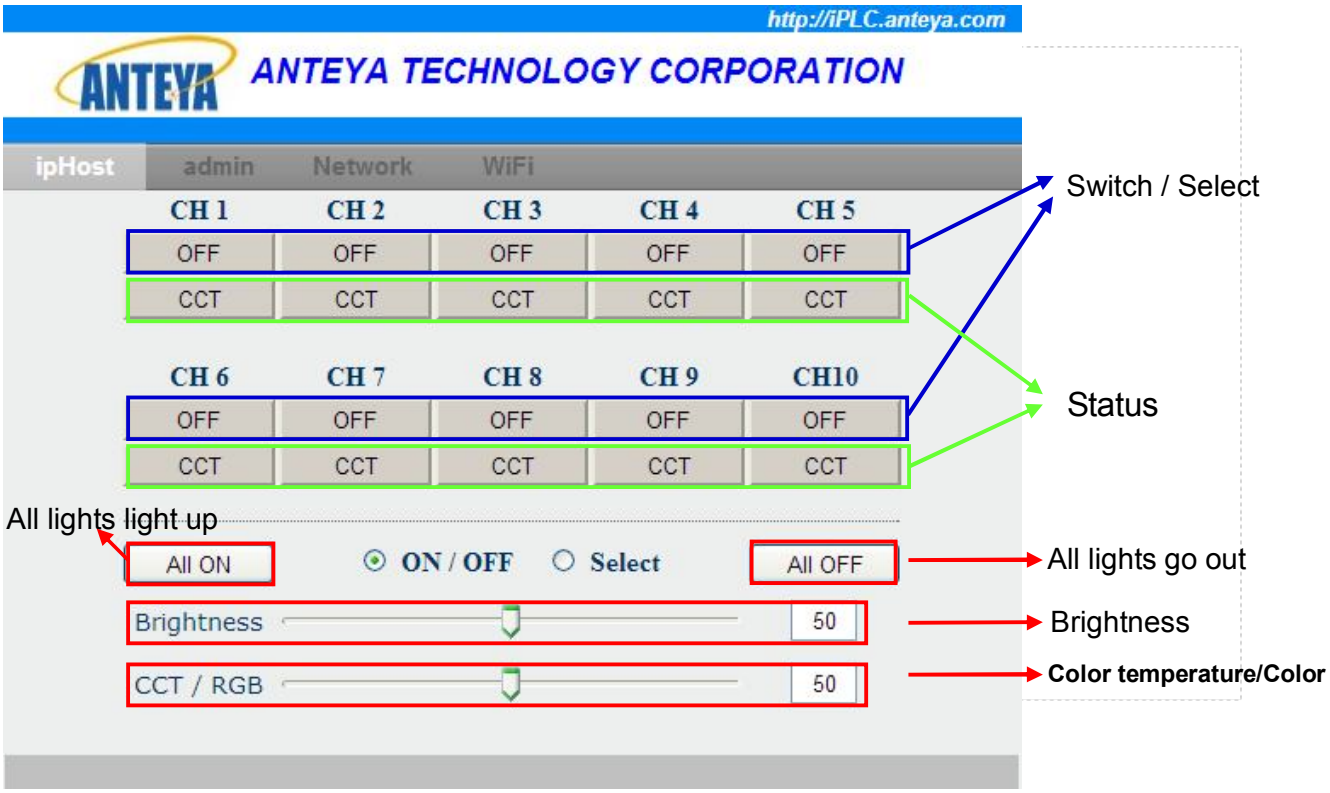
Step4 Open the browser (Chrome、Firefox、IE…)

Key in the IP address



2. Instruction：

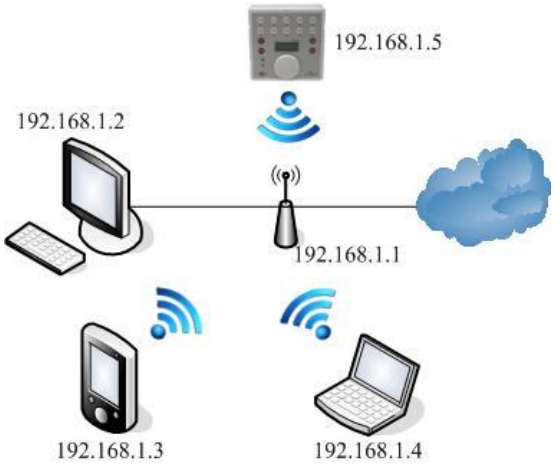
Instruction



9.2：Client mode: Intra-network dynamic IP ➔ (for WiFi environment)

WiFi station (device) is available in the ipHost, so ipHost can connect to WiFi station directly.

- The wireless network device has already existed in the ipHost.
- Any kind of Wireless network is allowed to connect with ipHost.
- ipHost is enable to connect with various Wireless station.
- Just need correspond the ipHost to the static IP, and you can control the ipHost anywhere & anytime.



1. Client Mode (Infrastructure)：

Step1 Search for wireless station：

SSID：

Security Mode：

WEP / TKIP / AES ：

例如 SSID：MyHome

Security Mode：AES

AES Password：12345678

Step2 Enter the ipHost instruction page

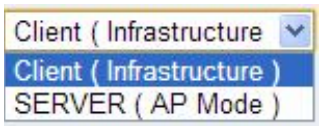
Step3 Click the “WiFi” page

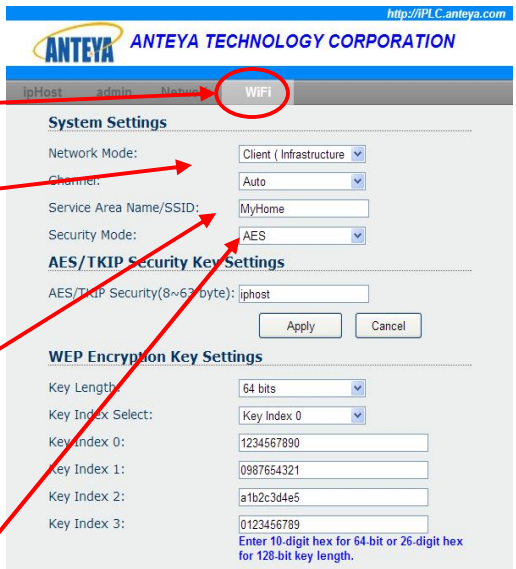
(Username: admin ; Password: admin)

Step4 Select “Client”

Client (Infrastructure) – for Client mode option

SERVER (AP Mode) – for Server mode option





Step5 Key in the name of Wireless station

※ Please pay attention to capital and small letter

Step6 Security Mode

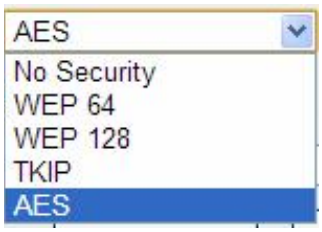
No Security (no password)

WEP 64 WEP 64bit (password)

WEP128 WEP128bit (password)

TKIP WAP TKIP (password)

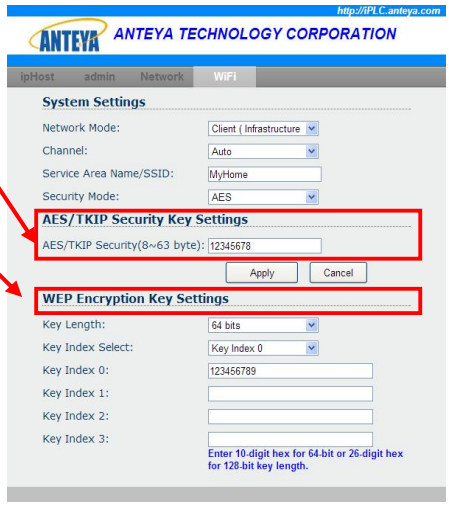
AES WAP AES (password)



Step7 Key in the password of Wireless station

Step8.a for ASE / TKIP setting, please key in the value and press Apply button.
(Restart PC after 20 sec.)

Step8.b for WEP setting, just need，key in the password and press Apply button.
(Restart PC after 20 sec.)



Step9 LCD monitor

1st line：Client mode

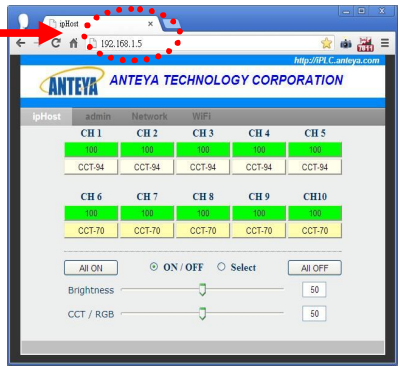
2nd line：Current time / SSID / IP address

Exp.： 22:00 MyHome 192.168.1.5

PS：Please make sure that the IP address need became as you set, if the IP address still states in 192.168.2.3, it means that setting fail, therefore, you have to return to the default setting and re-set again.

Step10 Open the browser (Chrome、Firefox、IE…)

Key in the IP address



2. Return to default setting value：

When the setting is fail and cannot connect to ipHost, please according to the following steps to return to the default setting：

Step1:Press Set Color for 5 second.

Step2: LCD LCD display: select “Yes” by rotary switch and push it down for confirm the selection.

Restore?

No Yes

Step3: LCD display: select “Yes” by rotary switch and push it down for confirm the selection.

Sure?

No Yes

Step4: ipHost will restart after 5 sec. and it will return to the default setting value (as a Server Mode (AP mode)).

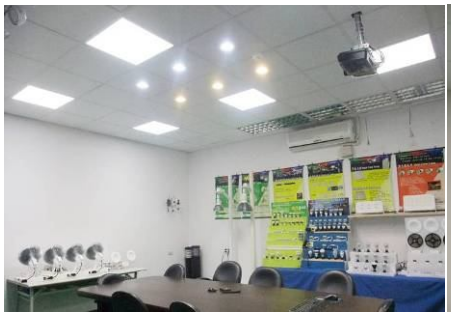
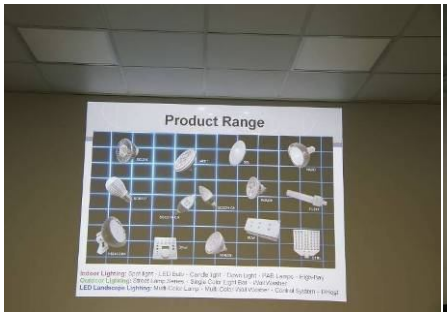
Default IP address: 192.168.2.3

9.3：**Client mode: Extra-network dynamic IP ➔ (Mapping to extranetwork)**

WiFi station (device) is available in the ipHost, so just need mapping the ipHost to the extra-network, so ipHost enable to connect the internet anytime & anywhere by WiFi.

- There are various type of wireless stations in the market, so you can consult the suppliers of wireless stations that how to connect the external IP to the internal IP.
- External IP connect to the ipHost: starts up the DMX mode or COM Port of wireless stations.

10. Meeting Room Applications

<table>
<tr>
<td>Example 1: Meeting mode
(M1 key of infrared remote control)
■ Description: Under the situation of un-using projector, so need enough light in the meeting room.
■ Do: Turn all lamps on to 100%.</td>
<td> 
 </td>
</tr>
<tr>
<td>Example 2: Projective Mode
(M2 key of infrared remote control)
■ Description: Under the situation of using projector, so need a bit darker environment.
■ Do: Turn off the first 2 lamps that are close the projection, so the projection will be clearer and easier to read.</td>
<td> 
 </td>
</tr>
<tr>
<td>Example 3: Break Mode
(M4 key of infrared remote control)
■ Description: In the break time, only turn on the micro-light.
■ Do: Just need leave few lamps and turn on to 20%, it is soft and suitable for break.</td>
<td> </td>
</tr>
<tr>
<td>Example 4: End of Meeting Mode
(key of infrared remote control)
■ Description: End of meeting, <u>turn the light to 1%</u>, it’s not only save energy, but also with lighting function.</td>
<td> </td>
</tr>
</table>